

Chemistry  
Ticket Out the Door  
Set 3 Significant Figures and Calculations

Name \_\_\_\_\_ Period \_\_\_\_\_

<b>Skill 3.01 Exercise 1</b>
Carry out the following arithmetic operations and round the result to the correct significant figures:
5.6792 m + 0.6 m + 4.33 m
3.70 g – 2.9133 g
4.51 cm + 3.666 cm
2.989 g + 9.91 g + 9000 g

<b>Skill 3.02 Exercise 1</b>
Carry out the following arithmetic operations and round the result to the correct significant figures:
2 x 3.123
2.000 x 3.123
0.010 cm + 3.666 cm
2000/3.000

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**Skill 3.03 Exercise 1**

A student counted 1100 jelly beans in the jar shown. If each jelly beans weighs exactly 1.00 g. How should the weight of all the jelly beans be reported?



The mass of an object is 9.001 g. What is the mass to the appropriate significant figures of 19 of these objects?

The density of an object was determined experimentally to be 2.001 g/mL, 2.115 g/mL, 2.050 g/mL, 1.999 g/mL, 2.101 g/mL. How should the average density of this object be reported?

**Skill 3.04 Exercise 1**

A student collected the following data. Using the data determine the density of the object.

Volume of water = 20.11 mL  
Volume of water and object = 25.111 mL  
Mass of object = 10.00 g

A student collected the following data. Using the data determine the density of the object.

Length of cube: 20. cm  
Mass of cube: 4. g

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